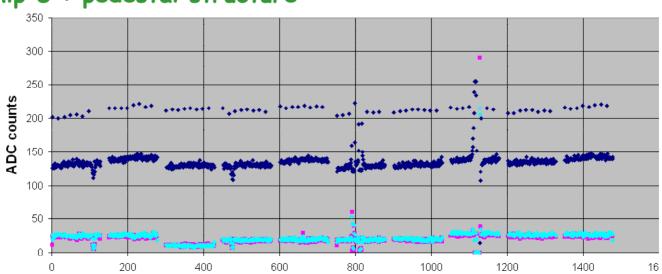


Module testing

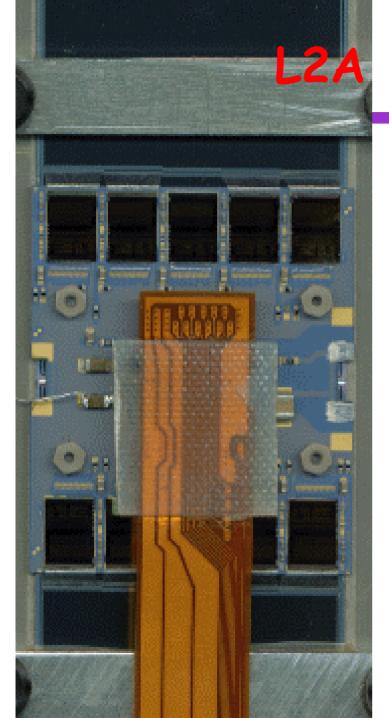
A. Nomerotski 2/17/2003

All Chips

- Progress in firmware
 - PA_RST conditions fixed (bug)
 - ▲ Studying what else can be improved/simplified in the firmware
 - With two PRD2 and proper grounding see nice performance
 - ▲ Total noise = Differential noise (!)
 - ▲ Good calinjects
 - ▲ Chip 6: two pinholes
 - ▲ Chip 8: pedestal structure



All Channels



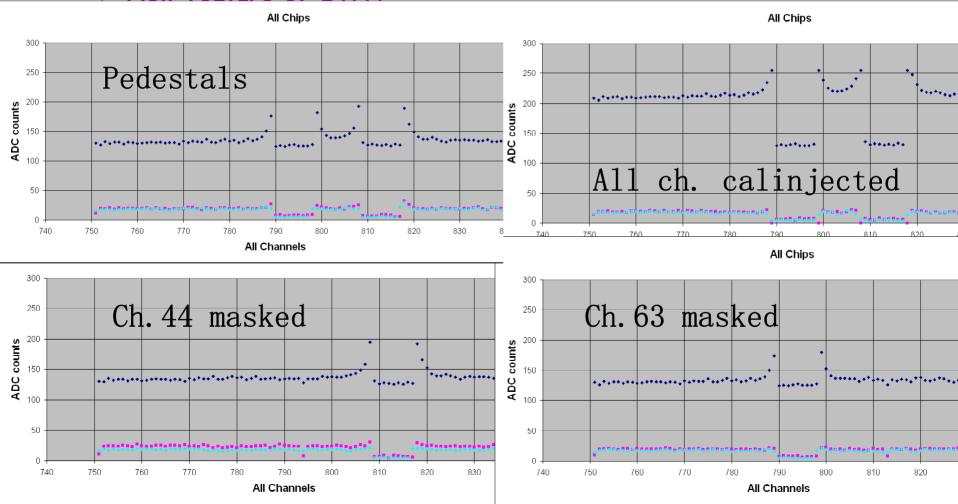
12A 20-20 module # 8

• Grounded from 1206 VDD bypass cap to the box



Pinhole Clamping

- Chip 6: pinholes (broken AC) in ch.44 and 63
- Masking recovers all but broken channels
 - New feature of SVX4



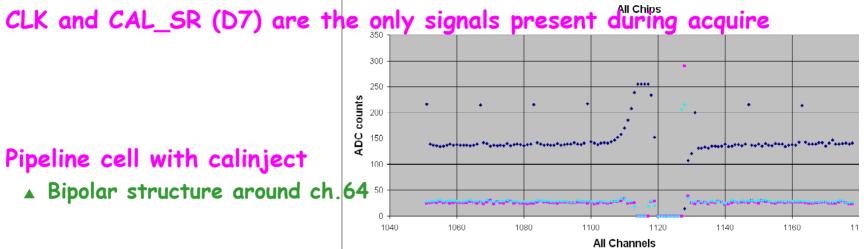


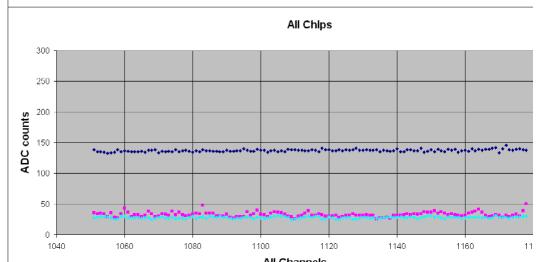
Pick-up from digital cable

- Pedestal structure at chip 8 is caused by digital cable
 - Cable passes above chip 8

- Pipeline cell with calinject
 - ▲ Bipolar structure around ch. 64 50



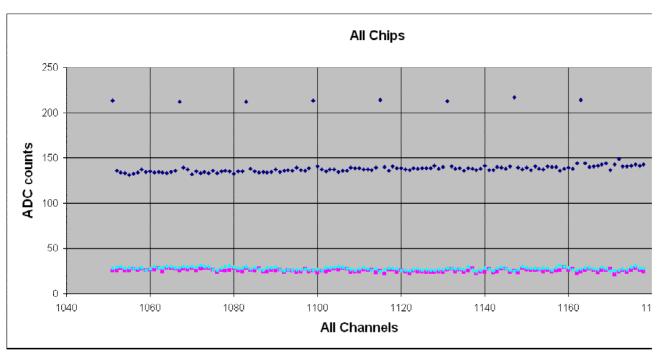






Pick-up from digital cable (2)

Shielding with Al foil removes the structure



- Conclusion: Structure is caused by D7 during calinjecting
- Is it harmful?
 - Calinjects are not used during data taking
 - ◆ Calibration runs problem with gain calculation for ~ 20 channels
- Need more studies with other modules/shielding schemes